In the Claims

Claim 1 (Currently amended): A particle comprising a <u>complex of chitosan</u>, or a <u>chitosan</u> derivative-thereof: a lipid: and a polynucleotide.

Claim 2 (Currently amended): The nanoparticle <u>particle</u> of claim 1, wherein said particle <u>further comprises a lipid</u>, and wherein said particle comprises a complex of said chitosan, said polynucleotide, and said lipid is a nanoparticle.

Claim 3 (Previously presented): The particle of claim 1, wherein said polynucleotide encodes a cytokine.

Claim 4 (Previously presented): The particle of claim 1, wherein said polynucleotide encodes interferon gamma.

Claim 5 (Currently amended): A composition comprising a particle and a pharmaceutically acceptable carrier, wherein said particle comprises a complex of chitosan, or a chitosan derivative thereof, a lipid, and a polynucleotide.

Claim 6 (Currently amended): The composition of claim 5, wherein said particle-further comprises—a lipid, and—wherein—said—particle—comprises—a complex—of—said—chitosan,—said polynucleotide, and said lipid is a nanoparticle.

Claim 7 (Previously presented): The composition of claim 5, wherein said polynucleotide encodes a cytokine.

Claim 8 (Previously presented): The composition of claim 5, wherein said polynucleotide cncodes interferon gamma.

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Claim 9 (Cancelled)

Claim 10 (Currently amended): A method for delivery and expression of a polynucleotide

within a-host mammal, said method comprising administering a particle to the-host mammal, wherein the particle comprises a complex of chitosan, or a chitosan derivative-thereof, a lipid, and a

polynucleotide, wherein the polynucleotide is expressed in the mammal.

Claim 11 (Currently amended): The method of claim 10, wherein the particle further

comprises a lipid, and wherein the particle is a complex of the chitosan, polynucleotide, and lipid is a

nanoparticle.

Claim 12 (Previously presented): The method of claim 10, wherein the polynucleotide

encodes a cytokine.

Claim 13 (Previously presented): The method of claim 10, wherein the polynucleotide

encodes interferon gamma.

Claims 14-15 (Cancelled)

Claim 16 (Previously presented): The method of claim 10, wherein the particle is

administered within a composition comprising a pharmaceutically acceptable carrier.

Claim 17 (Currently amended): A method for enhancing interferon-gamma expression to

regulate the production of cytokines secreted by T-helper type 2 (Th2) cells, said method comprising administering an effective amount of a particle to a subject mammal, wherein the particle comprises

chitosan, or a chitosan derivative thereof, a lipid, and a polynucleotide encoding interferon-gamma,

and wherein the polynucleotide is expressed, producing interferon-gamma in the mammal.

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Claim 18 (Currently amended): The method of claim 17, wherein the <u>subject mammal</u> is human.

Claim 19 (Currently amended): The method of claim 17, wherein the <u>subject mammal</u> is suffering from asthma.

Claim 20 (Currently amended): The method of claim 17, wherein the particle is administered to the respiratory tract of the subject mammal.

Claim 21 (Currently amended): A method for producing a particle comprising a complex of chitosan, or a <u>chitosan</u> derivative thereof, <u>a lipid</u>, and a polynucleotide, said method comprising mixing the polynucleotide, <u>the lipid</u>, and the chitosan or chitosan derivative, to form the particle.

Claims 22-23 (Cancelled)

Claim 24 (New): The method of claim 10, wherein the particle is administered intranasally.

Claim 25 (New): The particle of claim 1, wherein the lipid is a cationic lipid or phospholipid.

Claim 26 (New): The particle of claim 1, wherein the particle comprises chitosan.